

## Product datasheet for RC208134L4V

## OriGene Technologies, Inc.

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## Mannose Phosphate Isomerase (MPI) (NM\_002435) Human Tagged ORF Clone Lentiviral Particle

**Product data:** 

**Product Type:** Lentiviral Particles

**Product Name:** Mannose Phosphate Isomerase (MPI) (NM\_002435) Human Tagged ORF Clone Lentiviral

Particle

Symbol: Mannose Phosphate Isomerase

Synonyms: CDG1B; PMI; PMI1

Mammalian Cell

Selection:

Puromycin

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

**ACCN:** NM\_002435 **ORF Size:** 1269 bp

**ORF Nucleotide** 

Sequence:

The ORF insert of this clone is exactly the same as(RC208134).

**OTI Disclaimer:** 

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**RefSeq:** <u>NM 002435.1</u>

 RefSeq Size:
 3077 bp

 RefSeq ORF:
 1272 bp

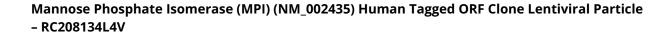
 Locus ID:
 4351

 UniProt ID:
 P34949

 Cytogenetics:
 15q24.1

Domains: PMI\_typeI







**Protein Families:** ES Cell Differentiation/IPS

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism,

Metabolic pathways

MW: 46.7 kDa

**Gene Summary:** Phosphomannose isomerase catalyzes the interconversion of fructose-6-phosphate and

mannose-6-phosphate and plays a critical role in maintaining the supply of D-mannose derivatives, which are required for most glycosylation reactions. Mutations in the MPI gene were found in patients with carbohydrate-deficient glycoprotein syndrome, type lb.

Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]